## **RECYCLABLE MATERIAL PROFILE**

Form: FM-M01 **EXHIBIT A** 

Generator Name: Alaskan Copper Works Company I.D. #: 22149-001-01												
A. Generator Information												
1. Address: 3200 Sixth Avenue S		3. Material EPA Waste Code: F006										
				_								
Seattle				4. Generator's EPA I.D. Number: WAD980738546								
2 Contact: Corold Thompson	·	98	1124	F. Congreterio State I.D. Number								
Contact: Gerald Thompson     5. Generator's State I.D. Number:  Title: Environmental Assistant												
B. Recyclable Material Characteristics												
									1946 Met	thad anas)		
1. Color(s). Diowii			1			9. Free Liquids (EPA SW 846, Method 9095)  ✓ Not Present			•			
	₩et	•	נו	✓ Homogenous		▼ INC	ot Present		Pres	sent		
2. Odor (none,mild,strong)	. <del>-</del>	Clay					ris		11. Rea	ectivity		
None	Sand		L	Bilayered		IZI No	ot Present		₩ Not	Reactive		
Description of Odor:	Powder		-									
	Other		<u>_                                    </u>	Multilayered		Present Reactive						
3. Moisture (wet,damp,dry)	8. Organic Vapors		L	Present		12. Radionuclides (ASTM D5928-96)						
Wet Percent Solids: 21.4	Not Pr	Not Present (< 1ppm) If pr		entify compounds and		✓ Not Detected						
		i	amount in ppi	m on a wet basis.  13. Cyanide Gas HCN								
<b>4. pH 5. Ignitability</b> (EPA SW 846, (40 CFR §261.21)	✓ Pass	ļ				IN No	t Detected					
method 9040/9045)		-								nnm		
pH: _8.46 @ 22.6°C	Fail					Пре	tected			ppm		
C. Analytical Data		(Content o	on a dry weigh	ht basis in	ppm or %)							
Constituent *		Content	Qualifier			tituent *		Con	tent	Qualifier		
1. Aluminum <sup>1</sup>	Al		L3	19.	Magnes		Mg		9.4 ppm <u>N</u>	<i>1</i> 1		
2. Antimony 1.7	Sb	21.6 ppm		20.	_		Mn		2.5 ppm _			
3. Arsenic 1.†	As	52.0 ppm		21.		_	Hg		5.8 ppm _			
4. Barium <sup>1,†</sup>	Ва	69.5 ppm		22.			Ni		1.7 ppm <u>M</u>	<u>11                                   </u>		
5. Beryllium 1,†	Be	< 10.0 ppm		23.			Se		0.0 ppm	_		
6. Bismuth 1	Bi	73.7 ppm		24.			Ag		5.0 ppm <u>N</u>	13		
7. Cadmium 1,†	Cd	< 20.0 ppm	10.140	_ 25.		.um 1,T	Tl		).5 ppm			
8. Calcium <sup>1</sup> 9. Chloride <sup>4</sup>	Ca Cl <sup>-</sup>	9999.0 ppm	L3, M3	26.			Sn		0.0 ppm <u>N</u>			
9. Chioride 4 10. Chromium, Hexavalen		2.31 % 2320.4 opin		27.	Zinc 1,1		Zn	546	3.0 ppm M	12		
11. Chromium, Hexavalen	Cr Cr	58053.1 ppm								:		
12. Cobalt 1	Co	880.4 ppm		* Analytical Procedure References								
13. Copper 1,†	Cu	44695.7 ppm	M3	1. EPA Method SW846 3050 / 6010 (Digestion / Analysis)								
14. Cyanide, Amenable 3.†		not analyzed	1410	2. EPA Method SW846 3060 / 7196 (Extraction / Analysis)								
15. Cyanide, Total <sup>3,†</sup>	CN.	< 46.7 ppm	<del>7</del> 3	3. EPA Method SW846 9010 / 9213 or 9014 (Distillation / Anaylsis)								
16. Fluoride 4	F-	0.82 %		4. HNO3 or H <sub>2</sub> O <sub>2</sub> / EPA Method SW846 9056 (Digestion / Analysis)								
17. Iron <sup>1</sup>	Fe	247784.0 ppm	· · · · · · · · · · · · · · · · · · ·		icensed Cons		u 0	0 (5.500	011771111117	"		
18. Lead <sup>1,†</sup>	Pb	96.6 ppm			,							
						_						
D. Certification												
I hereby certify that all information submitted in this profile is complete and accurate to the best of my knowledge and belief.												
Signed: Date: August 22, 2011												
Title: Laboratory Manager AZ DHS #: AZ0586												

AZF004\\F21 revised 2/1/2007

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QA/QC DATA

Form: FM-M01 **EXHIBIT A** 

Generator Name: Alaskan Copper Works

Company I.D. #: 22149-001-01

**QA/QC Criteria:** All analyses met method criteria unless otherwise noted.

#### **Explanation of Data Qualifiers:**

M3 The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The

associated blank spike recovery was acceptable.

M1 Matrix spike recovery was high; the associated blank spike recovery was acceptable.

Z3 The duplicate sample did not meet method acceptance limits due to the lack of sample homogeneity.

M2 Matrix spike recovery was low; the associated blank spike recovery was acceptable.

L3 The associated blank spike recovery was above method acceptance limits.

## SAMPLE COLLECTION & ANALYSIS COMPLETION DATES

Form: FM-M01 **EXHIBIT A** 

Generator Name: Alaskan Copper Works

Company I.D. #: 22149-001-01

	Constituent		Sample Date	Completion Date	Sample Technician
1.	рн		02/17/2011 13:19	02/17/2011 13:19	LEONEL GARCIA
2.		Al	02/17/2011 13:19	08/10/2011 10:42	LEONEL GARCIA
3.	Antimony	Sb	02/17/2011 13:19	08/10/2011 10:42	LEONEL GARCIA
4.	Arsenic	As	02/17/2011 13:19	08/10/2011 10:42	LEONEL GARCIA
5.	Barium	Ba	02/17/2011 13:19	08/10/2011 10:42	LEONEL GARCIA
6.	Beryllium	Вe	02/17/2011 13:19	08/10/2011 10:42	LEONEL GARCIA
7.	Bismuth	Вi	02/17/2011 13:19	08/10/2011 10:42	LEONEL GARCIA
8.	Cadmium	Cd	02/17/2011 13:19	08/10/2011 10:42	LEONEL GARCIA
9.	Calcium	Ca	02/17/2011 13:19	08/10/2011 10:42	LEONEL GARCIA
10.	Chloride	Cl	02/17/2011 13:19	02/24/2011 12:00	LEONEL GARCIA
11.	Chromium, Hexavalent	Cr+	02/17/2011 13:19	03/11/2011 15:00	LECNEL GARCIA
12.	Chromium, Total	$\operatorname{\mathtt{Cr}}$	02/17/2011 13:19	08/10/2011 10:42	LEONEL GARCIA
13.	Cobalt	Co	02/17/2011 13:19	08/10/2011 10:42	LEONEL GARCIA
14.	Copper	Cu	02/17/2011 13:19	08/10/2011 10:42	LEONEL GARCIA
15.	Cyanide, Amenable	CN.			
16.	Cyanide, Total	CN -	02/17/2011 13:19	03/04/2011 12:00	LEONEL GARCIA
17.	Fluoride	$\mathbf{F}^{T}$	02/17/2011 13:19	02/24/2011 12:00	LEONEL GARCIA
18.	Iron	Fe	02/17/2011 13:19	08/10/2011 14:40	LEONEL GARCIA
19.	Lead	Pb	02/17/2011 13:19	08/10/2011 10:42	LEONEL GARCIA
20.	Magnesium	Mg	02/17/2011 13:19	08/10/2011 10:42	LEONEL GARCIA
21.	Manganese	Mn	02/17/2011 13:19	08/10/2011 10:42	LEONEL GARCIA
22.	Mercury	Нg	02/17/2011 13:19	08/10/2011 10:42	LEONEL GARCIA
23.	Nickel	Ni	02/17/2011 13:19	08/10/2011 10:42	LEONEL GARCIA
24.	Selenium	Se	02/17/2011 13:19	08/10/2011 10:42	LEONEL GARCIA
25.	Silver	Ag	02/17/2011 13:19	08/10/2011 10:42	LEONEL GARCIA
<sub>-</sub> 26.	Thallium	Tl	02/17/2011 13:19	08/10/2011 10:42	LEONEL GARCIA
27.	Tin	Sn	02/17/2011 13:19	08/10/2011 10:42	LEONEL GARCIA
28.	Zinc	Zn	02/17/2011 13:19	08/10/2011 10:42	LEONEL GARCIA



8113 W. Sherman St. Tolleson, AZ 85353-4025

Tel: 800.972.1955 Fax: 623 936.9164

August 22, 2011

Mr. Gerald Thompson **Environmental Assistant** Alaskan Copper Works 3200 Sixth Avenue South Seattle, WA 98124

#### Dear Mr. Thompson:

In accordance with the recycling Agreement with your company, World Resources Company (WRC) provides a "RECYCLABLE MATERIAL PROFILE" (RMP) each contract year. Enclosed, for your records, is a completed RMP for the material generated at your plant. If a qualifier is indicated on the RMP, WRC has provided a quality assurance/quality control case narrative to validate the constituent's result(s).

The concentration of metals reported on the RMP is the total concentration of each metal on a dry basis. The recyclable material is prepared for analysis by first grid-sampling and then drying the selected sample in the laboratory oven at 103°-105° centigrade in order to obtain a homogeneous dry sample (Standard Methods For The Examination of Water and Wastewater, 15th Edition, published by the American Public Health Association 1980, Method 209A "Total Residue at 103°-105° centigrade"). Therefore, these results are generally higher than the concentrations of your material as it leaves your facility. You should multiply these dry concentrations by the decimal form of your percent solids (i.e. 50.0% = 0.50) to obtain the concentration of your material as it leaves your plant.

WRC appreciates your business and looks forward to a long and mutually beneficial recycling relationship. Please feel free to call me at (800) 972-1955 with any questions you may have regarding the enclosed RMP. Triank you for your interest in recycling.

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Sincerely,

World Resources Company

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**Enclosures**